



Test Report on Compressive Strength of Concrete Cubes

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village, RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt.27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm ²
Test Method	IS: 269:2015
Grade of Concrete	M - 30
Compressive Strength	7 th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	13-Jun-22	20-Jun-22	8.158	510.75	22.70
2	13-Jun-22	20-Jun-22	8.154	516.38	22.95
3	13-Jun-22	20-Jun-22	8.148	501.30	22.28

Note:

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- The results indicated above are based on the tests carried out on the samples are collected on the work spot & tested in the laboratory.
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For Sapience Consultants and Engineers,



K. Sreejith

K. Sreejith

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಲೆಟ್ಟುಕಟ್ಟು ಉಪವಿಭಾಗ
ಜಿಜಿಎಂಪಿ, ಬೆಂಗಳೂರು



sapience

Consultants and Engineers

(Building, Geo-Tech & Road Materials Testing Laboratory)

#B9-003, GANGA, Jnanabharathi Enclave,
Valagerahalli, Mysore Road, Bangalore 560059
Ph: 9448853634, 8762194386.
Email: sapiencebangalore@gmail.com

Test Report on Compressive Strength of Concrete Cubes

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village, RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt.27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm ²
Test Method	IS: 269:2015
Grade of Concrete	M - 30
Compressive Strength	7 th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm2)
1	13-Jun-22	20-Jun-22	8.136	498.15	22.14
2	13-Jun-22	20-Jun-22	8.132	511.88	22.75
3	13-Jun-22	20-Jun-22	8.150	507.38	22.55

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For Sapience Consultants and Engineers,



Authorized Signature

K. Sreejith

K. Sreejith

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಜವರವಿ, ಬೆಂಗಳೂರು



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Email: sapiencebangalore@gmail.com

Test Report on Compressive Strength of Concrete Cubes

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village, RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt.27/07/2022
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore
Sample ID	Concrete Cube
Size of Cubes	150mm x 150mm x 150mm
Cross Sectional Area	22500 mm ²
Test Method	IS: 269:2015
Grade of Concrete	M - 30
Compressive Strength	28 th Day

Sl. No.	Date of Casting	Date of Tesing	Weight of Cube (Kg)	Failure Load (KN)	Compressive Strength (N/mm ²)
1	13-Jun-22	11-Jul-22	8.163	786.60	34.96
2	13-Jun-22	11-Jul-22	8.147	765.90	34.04
3	13-Jun-22	11-Jul-22	8.129	776.03	34.49

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For Sapience Consultants and Engineers,



K. S. Srinivas

K. S. Srinivas
ಸಹಾಯಕ ಕಾರ್ಯನಾಲ್ಕ ಅಭಿಯಂತರರು
ಶೈಕ್ಷಣಿಕ ಉಪವಿಭಾಗ
ಜಿಜಿಎಂಪಿ, ಬೆಂಗಳೂರು

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Project Name Restoration and Improvements of roads and drains in A V Layout, Shettyhalli village RR layout of Chikkasandra village and Abbigere village roads, BT5 Village, Varaheshwarah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWS58 to lay water supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli, BBMP, Bangalore

Client Executive Engineer, Dasarahalli Division, BBMP, Bangalore

Job No.: SCE/PMC/QCR-2/BBMP/DH/2022 23/57 Dt. 27/07/2022

Contractor / Agency Sri Chikaboregowda Karigowda(CKG Constructions Private Limited), Contractor, Mysore

Type of Samples 100mm Pre-Cast Slab Cores (50mm dia)

Test Method IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Core M - 20

Date of Testing 22.06.2022

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg/m^3)	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50	80.00	0.373	2374.59	1.60	32.43	16.52	17.84	17.07	21.33
2	50	85.00	0.376	2252.89	1.70	32.46	16.53	17.85	17.28	21.59
3	50	80.00	0.379	2412.79	1.60	32.81	16.71	18.05	17.27	21.58

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg/m^3)	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50	80.00	0.372	2368.23	1.60	32.01	16.30	17.61	16.85	21.06
2	50	85.00	0.370	2216.93	1.70	32.02	16.31	17.61	17.04	21.30
3	50	80.00	0.367	2336.39	1.60	32.42	16.51	17.83	17.06	21.33

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For Sapience Consultants and Engineers,



Executed

Keerthi

ಸಾಪಿಯೆನ್ಸ್ ಕನ್ಸಲ್ಟಂಟ್ಸ್ ಪ್ರೈವೇಟ್ ಲಿಮಿಟೆಡ್
ಬೆಂಗಳೂರು
ಜ್ಞಾನಭಾರತಿ ಎಂಕ್ಲೇವ್
ವಿದ್ಯನಗರಹಳ್ಳಿ, ಮೈಸೂರು ರಸ್ತೆ, ಬೆಂಗಳೂರು 560059

Project Management and Consultancy Services

Summary of Frequencies of Field and Laboratory Tests Conducted

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village,RR layout of Chikkasandra village and Abbigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedehalli Old Village roads Dugged by BWSSB to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli, BBMP, Bangalore					
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.					
Job No.:	SCE/PMC/OCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022					
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Private Limited), Contractor, Mysore.					
Mix Type	Granular Sub Base					
Sl. No.	Test Details	Quantity in m ³	Frequency of Tests	Tests Required	Tests Carried Out	
3	Aggregate Gradation	4896.28	1 Test / 100 m ³	49	49	
4	Atterberg Limits		1 Test / 100 m ³	49	49	



Sapience Consultants and Engineers,

Assistant Engineer

Contractor / Agency

Assistant Executive Engineer

ಕರ್ನಾಟಕ ಸಾರ್ವಜನಿಕ ಅಭಿವೃದ್ಧಿ ಇಲಾಖೆ
ಬೆಂಗಳೂರು ವಿಭಾಗ
ಜವಾನಿ, ಬೆಂಗಳೂರು

Atterberg Limits

Project Name	Restoration and Improvements of roads and drains in A Y R Layout, Shettyhalli village, RR layout of Chikasantra village and Abgere village roads, B75 Village, Vishwestwarah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWS58 to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore			
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.			
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022			
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Private Limited), Contractor, Mysore			
Mix Type	Granular Sub Base			
Material	Coarse Aggregates			
Test Method	IS 2720(Part 5).1985			
Source / Location	Plant			
Sample No.	1, 2 and 3			
Date	06.06.2022 and 07.06.2022			

Sl. No	Description	Test #4	Test #5	Test #6	IS Specifications
1	Liquid Limit, %	22.4	21.66	22.17	-
2	Plasticity Index, %	Non Plastic	Non Plastic	Non Plastic	6.0% Maximum.

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For Sapience Consultants and Engineers,



K. S. S. S.

K. S. S. S.

ಸಹಕಾರ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿವಪಟ್ಟಣ ಉಪವಿಭಾಗ
ಜಿಲ್ಲಾಪಂಚಾಯತ್, ಬೆಂಗಳೂರು

Atterberg Limits

Project Name	Restoration and improvements of roads and drains in A Y R Layout, Shettyhalli village, RR layout of Chikkasandra village and Abigere village roads, BTS Village, Vishveshwariah village, Royal Enclave and Sidedahalli Old Village roads Dugged by BWS58 to lay water Supply and UGD lines under 110 villages in ward No 12 & 14 Shettyhalli, BBMP, Bangalore			
Client	Executive Engineer, Dasarahalli Division, BBMP, Bangalore.			
Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022			
Contractor / Agency	Sri.Chikkaboregowda Kargowda(CKG Constructions Private Limited), Contractor, Mysore			
Mix Type	Granular Sub Base			
Material	Coarse Aggregates			
Test Method	IS 2720(Part 5):1985			
Source / Location	Plant			
Sample No.	1, 2 and 3			
Date	07.06.2022 and 08.06.2022			

Sl. No	Description	Test #7	Test #8	Test #9	IS Specifications
1	Liquid Limit, %	22.13	22.36	22.88	-
2	Plasticity Index, %	Non Plastic	Non Plastic	Non Plastic	6.0% Maximum.

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For Sapience Consultants and Engineers,



K. Sreenivasulu

K. Sreenivasulu

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ಶಿಕ್ಷಣಕ್ಕೆ ಉಪವಿಭಾಗ
ಬೆಂಗಳೂರು, ಬೆಂಗಳೂರು

Atterberg Limits

Project Name	Restoration and improvements of roads and drains in A Y R Layout, Shettyhalli village, RT layout of Chikkasandra village and Abigere village roads, BT5 Village, Vishveshwariah village, Royal Enclave and Sidedehalli Old Village roads Dugged by BWS58 to lay water supply and USD lines under 110 villages in ward No 12 & 14 Shettyhalli. BBMP, Bangalore		
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Job No.:	SCE/PMC/OCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022		
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Privite Limited), Contractor, Mysore		
Mix Type	Granular Sub Base		
Material	Coarse Aggregates		
Test Method	IS 2720(Part 5):1985		
Source / Location	Plant		
Sample No.	1, 2 and 3		
Date	07.06.2022 and 08.06.2022		

Sl. No	Description	Test #10	Test #11	Test #12	IS Specifications
1	Liquid Limit, %	22.96	21.87	22.77	-
2	Plasticity Index, %	Non Plastic	Non Plastic	Non Plastic	6.0% Maximum.

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For Sapience Consultants and Engineers,



K. K. K. K.

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Atterberg Limits

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Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022			
Contractor / Agency	Sri.Chikaboregowda Karigowda(CKG Constructions Private Limited), Contractor, Mysore			
Mix Type	Granular Sub Base			
Material	Coarse Aggregates			
Test Method	IS 2720(Part 5):1985			
Source / Location	Plant			
Sample No.	1, 2 and 3			
Date	07.06.2022			

Sl. No	Description	Test #13	Test #14	Test #15	IS Specifications
1	Liquid Limit, %	21.54	22.57	22.82	-
2	Plasticity Index, %	Non Plastic	Non Plastic	Non Plastic	6.0% Maximum.

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For Sapience Consultants and Engineers,



K. Suresh

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ಅಭಿವೃದ್ಧಿ ಉಪವಿಭಾಗ
ಜಿಜಿಎಂಐ, ಬೆಂಗಳೂರು



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Atterberg Limits

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Job No.:	SCE/PMC/QCR-2/BBMP/DH/2022-23/57 Dt. 27/07/2022		
Contractor / Agency	Sri.Chikkaboregowda Karigowda(CKG Constructions Private Limited), Contractor, Mysore		
Mix Type	Granular Sub Base		
Material	Coarse Aggregates		
Test Method	IS 2720(Part 5):1985		
Source / Location	Plant		
Sample No.	1, 2 and 3		
Date	08.06.2022		

Sl. No	Description	Test #16	Test #17	Test #18	IS Specifications
1	Liquid Limit, %	21.96	21.39	22.66	-
2	Plasticity Index, %	Non Plastic	Non Plastic	Non Plastic	6.0% Maximum.

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ಶಿಕ್ಷಣ ಮತ್ತು ಉಪವಿಭಾಗ
ಬೆಂಗಳೂರು, ಕೆ.ಆರ್.ನಗರ